KHX6400D2/1G

1GB 128M x 64-Bit PC2-6400
CL5 240-Pin DIMM

DESCRIPTION:

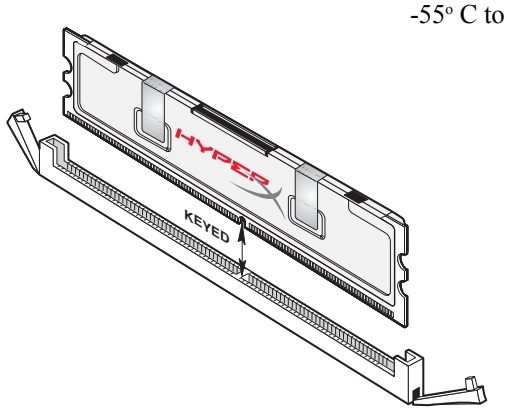
This document describes Kingston's 128M x 64-bit 1GB (1024MB) DDR2-800 CL5 SDRAM (Synchronous DRAM) memory module, based on sixteen 64M x 8-bit DDR2 FBGA components. This module has been tested to run at DDR2 800MHz at low latency timing of 5-5-5-15 at 1.95V. The SPD is programmed to JEDEC standard latency 667Mhz timing of 5-5-5-15 at 1.8V. This 240-pin DIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

FEATURES:

- ☑ Power supply : Vdd: 1.8V ± 0.1V, Vddq: 1.8V ± 0.1V
- ☑ Double-data-rate architecture; two data transfers per clock cycle
- ☑ Bidirectional data strobe(DQS)
- ☑ Differential clock inputs(CK and CK)
- ☑ DLL aligns DQ and DQS transition with CK transition
- ☑ Programmable Read latency 5 (clock)
- ☑ Burst Length: 4, 8 (Interleave/nibble sequential)
- ☑ Programmable Burst type (sequential & interleave)
- ☑ Timing Reference: 5-5-5-15 at +1.8V / 5-5-5-15 at +1.95V
- ☑ Edge aligned data output, center aligned data input
- ☑ Auto & Self refresh, 7.8us refresh interval (8K/64ms refresh)
- ☑ Serial presence detect with EEPROM
- ☑ High Performance Heat Spreader
- ☑ PCB : Height 1.180" (30.00mm), double sided component

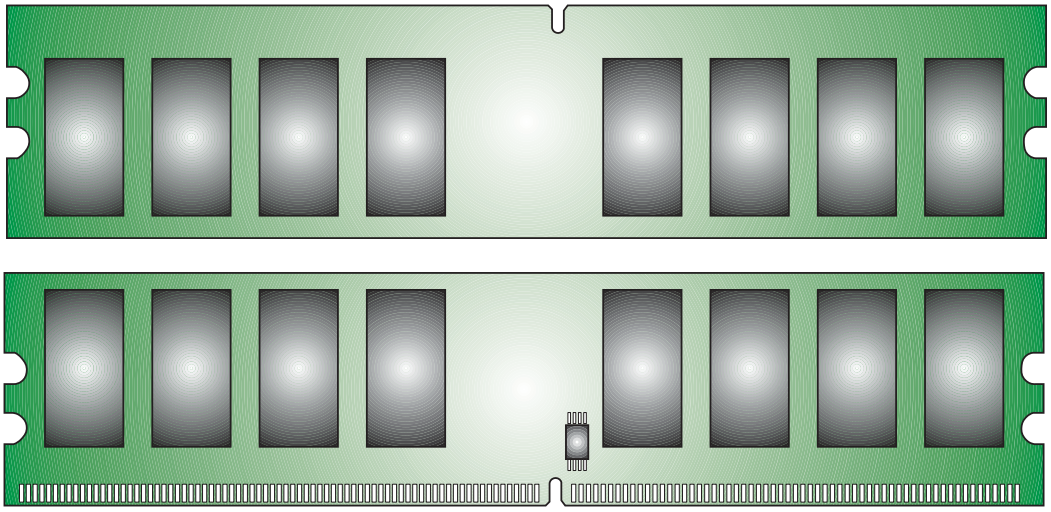
PERFORMANCE:

☑ Clock Cycle Time (tCK) CL=5	3ns (min.) / 8ns (max.)
☑ Row Cycle Time (tRC)	54ns (min.)
☑ Refresh to Active/Refresh Command Time (tRFC)	105ns
☑ Row Active Time (tRAS)	39ns (min.) / 70,000ns (max.)
☑ Single Power Supply of	+1.8V (+/- .1V)
☑ Power	1.922 W (operating)
☑ UL Rating	94 V - 0
☑ Operating Temperature	0° C to 55° C
☑ Storage Temperature	-55° C to +125° C

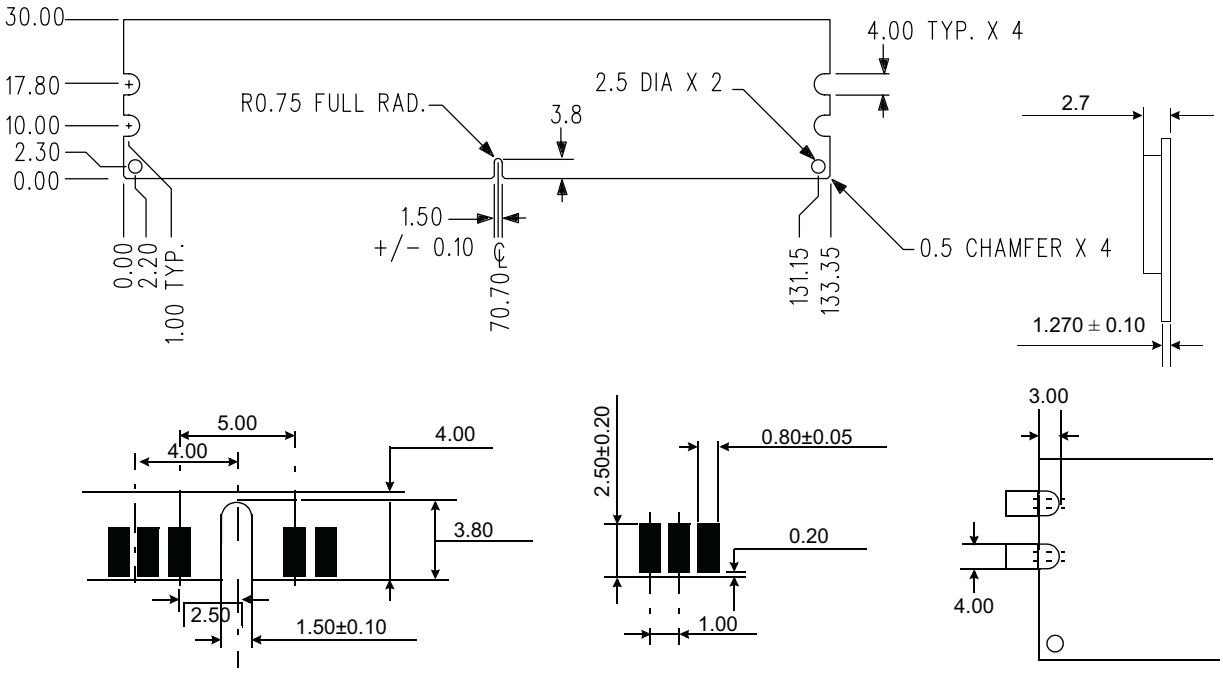


Preliminary

MODULE DIMENSIONS:



Units: millimeters



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